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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/910,442	07/20/2001	Rajagopal Bakthavatchalam	NCX-003:01	2748
20306	7590 03/04/2003			•
MCDONNELL BOEHNEN HULBERT & BERGHOFF 300 SOUTH WACKER DRIVE SUITE 3200			· EXAMINER	
			HABTE, KAHSAY	
CHICAGO, II	60606		ART UNIT	PAPER NUMBER
			1624 DATE MAILED: 03/04/2003	14

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	/ · · · · · · · · · · · · · · · · · · ·	,			
Office Action Summary	09/910,442	BAKTHAVATCHALAM ET AL.			
Cinco noncin cummany	Examiner	Art Unit			
The MAILING DATE of this communicati	Kahsay Habte, Ph. D.	1624 the correspondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICATORY Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicatory. If the period for reply specified above is less than thirty (30) datory of the period for reply is specified above, the maximum statutory of the period for reply within the set or extended period for reply will, but any reply received by the Office later than three months after the earmed patent term adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no event, however, may a repation. ys, a reply within the statutory minimum of thirty (y period will apply and will expire SIX (6) MONTH by statute, cause the application to become ABAI	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed of	on <u>10 February 2003</u> .				
2a) This action is FINAL . 2b)	∑ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠ Claim(s) <u>4-6,8-23,25-85,88-176,193 an</u>	d 197-211 is/are pending in the ap	pplication.			
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) 4-6,8-23,25-85,88-176,193 and	1 197-211 is/are rejected.				
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction	and/or election requirement.				
Application Papers	•	·			
9) The specification is objected to by the Ex	aminer.				
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for	foreign priority under 35 U.S.C. §	119(a)-(d) or (f).			
a) All b) Some * c) None of:					
 Certified copies of the priority doc 	uments have been received.				
2. Certified copies of the priority doc	uments have been received in App	plication No			
 3. Copies of the certified copies of the application from the Internation * See the attached detailed Office action for 	nal Bureau (PCT Rule 17.2(a)).	-			
14) Acknowledgment is made of a claim for de	·				
a) ☐ The translation of the foreign langua	ige provisional application has bee	en received.			
Attachment(s)	·				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-93) Information Disclosure Statement(s) (PTO-1449) Paper	948) 5) Notice of Inf	ommary (PTO-413) Paper No(s) formal Patent Application (PTO-152)			
J.S. Patent and Trademark Office PTO-326 (Rev. 04-01) O	office Action Summary	Part of Paper No. 14			

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DETAILED ACTION

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1. Claims 4-6, 8-23, 25-85, 88-176 💮 193, 197-211.

Response to Amendment

2. Applicant's amendment filed 2/10/2003 in response to the previous Office Action (Paper No. 10) is acknowledged. Rejections of claims 4-6, 8-176 and 193-198 under 35 U.S.C. § 112, second paragraph (Paper No. 10, paragraphs 8a-8b) have been obviated. The rejection in previous Office Action under 35 U.S.C. § 112, second paragraph (Paper No. 10, item 8c) has been maintained.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 4-6, 8 and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by Du et al. (US Pat. No. 4,450,272). The cited reference teaches the general preparation of 1-piperazine thiocarboxamide derivatives. Specifically, the 5th, 6th, 7th, 9th, and 10th compounds on Table III are the same as applicants. Said compounds are the same as applicant's compound when applicant's compound of the formula have the following substituents: Ar1 = phenyl, Ar2 = piperazinyl, A = NH, Z = S, R3=R4 = hydrogen.

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Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 4-6, 8-9, 27, 31-32, and 50 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There has been recited in claims 4, 5, 8, 9, etc. the term "heterocycle", but this term introduces a new matter.

Applicants have replaced the term "heterocycloalkyl" to "heterocycle" to overcome the rejection, but the new term is now broader. According to page 45 of the specification, "heterocycloalkyl" is defined as a stable 5-7membered monocyclic or bicyclic or 7-10 membered bicyclic heterocyclic <u>saturated</u> ring." Heterocyclic ring includes both saturated and unsaturated rings, thus it is broader than "heterocycloalkyl." It is recommended that applicants amend the claim as "saturated heterocyclic ring." That will resolve the issue entirely.

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Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 4-6, 8-23, 25-85, 88-176, 193, and 197-211 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention:

- a. In claims 4 or elsewhere in the claims, the phrase "optionally substituted" is indefinite. "Optionally substituted" by what? What are covered and what are not?
- b. In claim 193, the phrase "the compound or salt is not addictive" is not clear.

 How can one tell if the salt or the compound is addictive or not? How can one prove

 that the salt or the compound is not addictive?

Response to arguments

Applicant's argument filed 02/10/2003 has been fully considered but they are not persuasive.

Applicants indicate that they have attached a copy of an article (American Psychiatric Association, 2000) pages 192-198 to overcome the rejection, but the examiner did not get the copy. It is recommended that applicants send the reference in response to this Office Action.

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Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kahsay Habte, Ph. D. whose telephone number is (703) 308-4717. The examiner can normally be reached on M-F (9.00AM- 5:30PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mukund Shah can be reached on 703-308-4716. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4556.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

Kahsay Habte, Ph. D.

Examiner Art Unit 1624

KH March 3, 2003 Mark L. Berch

Primary Examiner

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